

• *Example: Bus Garage Repairs*

- Buses come to a garage for repairs.
- A mechanic and helper perform the repair, record the reason for the repair and record the total cost of all parts used on a Shop Repair Order.
- Information on labor, parts and repair outcome is used for billing by the Accounting Department, parts monitoring by the inventory management computer system and a performance review by the supervisor.

- *Example: Bus Garage Repairs (cont'd)*

- *External Entities:* Bus, Mechanic, Helper, Supervisor, Inventory Management System, Accounting Department, etc.
- *Key process* (“the system”): performing repairs and storing information related to repairs
- *Processes:*
 - Record Bus ID and reason for repair
 - Determine parts needed
 - Perform repair
 - Calculate parts extended and total cost
 - Record labor hours, cost
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- *Example: Bus Garage Repairs (cont'd)*
- *Data stores:*
 - Personnel file
 - Repairs file
 - Bus master list
 - Parts list
- *Data flows:*
 - Repair order
 - Bus record
 - Parts record
 - Employee timecard
 - Invoices

Bus Garage Context Diagram

